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APPENDIX

Listing of the Claims:

Claim 1 (previously amended)- A motion transmission and multiplication system for use with systems, devices or structures that require movement of segments, to enable extendable and retractable motion, such as cleaning systems, measuring systems, hand-movable tools, music instruments and accessories, electrical and telecommunication devices, transportation and delivery systems, shades, sailing boats, chairs, tripods, tables and tents, said motion transmission and multiplication system comprising:

at least first and second elements each having anterior and posterior ends, said elements extending in the same orientation, each element having at least one point thereon connectable to a tool or other object; and at least a first means linking said first and second elements and being movable with respect to at least one of them, said first linking means also being connectable to an additional element;

said first linking means being arranged on said elements such that when said first linking means is moved with a controllably reversible driving motion with respect to either of said anterior or posterior ends of a selected reference one of the at least first and second elements, wherein said driving motion is in a direction in-line with said orientation, then said first and second elements, and if connected, said additional element are simultaneously provided with a controllably reversible and multipliable, non-gravity dependent, linear-to-linear driven motion with respect to each other in-line with said orientation;

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said driven motion being in the same direction as said driving motion, or reverse thereto, in accordance with which reference one of said first and second elements was selected in respect of said driving motion.

Claim 2 (original). The system of claim 1 wherein said driving motion is in the same direction as said driven motion of said second element.

Claim 3 (original). The system of claim 1 wherein said driving motion is in the opposite direction of said driven motion of said second element.

Claim 4 (cancelled).

Claim 5 (original). The system of claim 1 wherein said second element is nested within said first element and arranged for telescopically-driven motion therein, said first linking means comprising a flexible loop attached at a posterior portion of said second element and arranged such that said driving motion is loop-type on said first element, to provide said telescopically-driven motion.

Claim 6 (original). The system of claim 5 further comprising an elastic hose connected internally between said first and second elements to enable flow of materials between input and output ends thereof.

Claim 7 (original). The system of claim 6 further comprising a speed control element associated with said first and second elements for operating an apparatus in relation to said driven motion.

Claim 8 (original). The system of claim 5 further comprising a third element nested within said second element and arranged for telescopically-driven motion therein, said third element being linked to said first element by a second linking means comprising a second flexible loop

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being attached at a posterior portion of said third element and being arranged such that said driving motion is loop-type on said second element, to provide said telescopically-driven motion of said third element.

Claim 9 (original). The system of claim 1 wherein said second element is nested within said first element and arranged for telescopically-driven motion therein, said first linking means comprising a first rack arranged such that said driving motion is of a sliding type on said first element, said first rack engaging a pinion gear rotatably supported at an anterior portion of said first element, a gearwheel coaxial with said pinion gear engaging a second rack mounted on said second element such that said sliding-type driving motion of said first rack on said first element provides said telescopically-driven motion.

Claim 10 (original). The system of claim 9 wherein a gear ratio between said pinion gear and gearwheel fixes said telescopically-driven motion.

Claim 11 (original). The system of claim 1 wherein said second element is nested within said first element and arranged for telescopic motion therein, said first linking means comprising a toothed flexible loop arranged such that said driving motion is of a loop-type on said first element, said toothed loop engaging a pinion gear rotatably supported at an anterior portion of said first element, a gearwheel coaxial with said pinion gear engaging a second rack mounted on said second element such that said loop-type driving motion of said toothed flexible loop on said first element provides said telescopically-driven motion.

Claim 12 (original). The system of claim 11 further comprising a motor connected to said gearwheel for driving said loop-type motion.

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Claim 13 (original). The system of claim 1 wherein said second element is nested within said first element and arranged for telescopically-driven motion therein, said first linking means comprising a first rigid arm attached at an anterior portion of said second element and arranged such that said driving motion is of a sliding-type on said first element, to provide said second element with said telescopically-driven motion.

Claim 14 (original). The system of claim 13 further comprising a third element nested within said second element and arranged for telescopically-driven motion therein, and second and third linking means, said second linking means developing driven motion in response to said driving motion of said first linking means, said third linking means developing driven motion in response to said driven motion of said second linking means, to provide said telescopically-driven motion of said third element.

Claim 15 (original). The system of claim 14 wherein said second linking means comprises a flexible loop arranged for loop-type motion on said first rigid arm, and said third linking means comprises a second rigid arm arranged for sliding-type motion on said first rigid arm, said loop being attached to an anterior portion of said first element, said second rigid arm being attached between said loop and said third element.

Claim 16 (original). The system of claim 1 wherein said first element is a first rigid arm and said second element is a second rigid arm which slides thereon, said first rigid arm having a flexible loop arranged for loop-type driving motion between its ends, said second ridge arm being attached at a posterior end to said flexible loop such that when said loop-type driving motion is provided, said second rigid arm is provided with driven motion.

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Claim 17 (original). The system of claim 16 provided as a kit for self-assembly and attachment to a set of elements to be nested one within another for providing telescopically-driven motion.

Claim 18 (original). The system of claim 16 further comprising a set of first, second and third elements nested within one another and arranged for telescopically-driven motion between them, said first rigid arm being arranged for sliding-type driving motion on said first element, and being attached to an anterior portion of said second element, said flexible loop being attached to said first element, and said second rigid arm being attached to said third element to provide said telescopically-driven motion.

Claim 19 (previously amended). The system of claim 18 in combination with nested vacuum cleaner rods arranged for telescopically-driven motion.

Claim 20 (original). The system of claim 19 further comprising an expandable elastic tube within said vacuum cleaner rods for suction transfer.

Claim 21 (original). The system of claim 19 further comprising an expandable elastic tube external to said vacuum cleaner rods for suction transfer.

Claim 22 (original). The system of claim 19 further comprising an elastic sleeve around said rod elements to maintain a dust/dirt barrier.

Claim 23 (original). The system of claim 1 further comprising a motorized screw and a third element nested within said second element and arranged for telescopically-driven motion therein, said motorized screw being arranged such that said driving motion is screw-type on said second element, to provide said third element with said telescopically-driven motion.

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Claim 24 (previously amended). The system of claim 23 further comprising limit switches mounted on at least one of said elements for electrically controlling said screw-type driving motion.

Claim 25 (original). The system of claim 1 further comprising a central element disposed proximate said first and second elements, said central element having an element slidably mounted thereon and being connected to provide sliding-type driving motion to said first linking means.

Claim 26 (previously amended). The system of claim 25 in combination with a tripod having a plurality of legs each pivotable at an end of said central element and being arranged for said telescopically-driven motion.

Claim 27 (previously amended). The system of claim 25 in combination with a music stand having a plurality of legs each pivotable at an end of said central element and being arranged for said telescopically-driven motion.

Claim 28 (previously amended). The system of claim 25 in combination with an umbrella which opens and closes with said driven motion.

Claim 29 (previously amended). The system of claim 25 in combination with a parasol which opens and closes with said driven motion.

Claim 30 (original). The system of claim 25 further comprising a second central element and a second set of first and second elements, all being spaced apart from said central element, adapted for use with an awning, which opens and closes with said driven motion.

Claim 31 (original). The system of claim 1 further comprising a third element nested within said second element and arranged for telescopically-driven motion therein, said third element

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being linked to said first element by a spring-loaded tape tending to telescopically close said first, second and third elements together, said spring-loaded tape being calibrated with measurements such that driving motion of said first linking means provides said spring-loaded tape with telescopically-driven motion to enable distance measurement.

Claim 32 (original). The system of claim 1 adapted for use with a tape measure.

Claim 33 (original). The system of claim 1 further comprising a tool attached proximate at least one end of one of said first and second elements.

Claim 34 (original). The system of claim 33 wherein said tool is a drill and said first and second elements are rotatable about a common axis.

Claim 35 (original). The system of claim 33 further comprising control means for determining a working angle of said tool angle in relation to said driven motion of said first and second elements.

Claim 36 (original). The system of claim 1 wherein said linking means is enclosed within at least one of said first and second elements.

Claim 37 (original). The system of claim 1 wherein said first and second elements are rotatable about a common axis.

Claim 38 (original). The system of claim 1 wherein said first and second elements are movable side-by-side in tracks disposed adjacent one another.

Claim 39 (previously amended). The system of claim 38 adapted for use with curtains, which open and close with said driven motion.

Claim 40 (original). The system of claim 38 adapted for use with shutters, which open and close with said driven motion.

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Claim 41 (original). The system of claim 38 further comprising rollers mounted at the ends of said first and second elements for guiding said movement in said tracks.

Claim 42 (original). The system of claim 38 adapted for use as a conveyor, which opens and closes with said driven motion and which has cargo placed anywhere on at least one of said first and second elements.

Claim 43 (original). The system of claim 1 adapted for use as a wind instrument.

Claim 44 (original). The system of claim 1 adapted for use as a percussion instrument.

Claim 45 (original). The system of claim 1 adapted for use with illumination.

Claim 46 (original). The system of claim 1 adapted for use on a sailboat mast.

Claim 47 (original). The system of claim 1 adapted for use as an assembly toy.

Claim 48 (previously amended). The system of claim 1 wherein either of said first and second elements has mounted at an end thereof a surface for supporting at least one of a tool, an electrical device, a device for telecommunications, control, and/or home entertainment with at least one of flexible wiring, cable and/or tubes being extendible and retractable during motion of said first and second elements, at least one of said first and second elements being supported in a room to enable positioning of said surface at a desired position.

Claim 49 (previously added). The system of claim 1 further comprising a spring connected to at least one of said first and second elements to provide a force for reversing said reversible driving motion.

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Claim 50 (previously added, currently amended). A motion transmission and multiplication system for use with systems, devices [[or]] and structures that require movement of segments, to enable extendable and retractable motion, such as to be used with cleaning systems, measuring systems, hand-movable tools, music instruments and accessories, electrical and telecommunication devices, transportation and delivery systems, shades, sailing boats, chairs, tripods, tables and tents, said motion transmission and multiplication system comprising: at least first and second hand-movable elements each having anterior and posterior ends, said elements extending in the same orientation, each element having at least one point thereon connectable to a tool or other object; and at least a first means linking said first and second elements and being movable with respect to at least one of them, said first linking means also being connectable to an additional element, said first linking means being arranged on said elements such that when said first linking means is moved with a controllably reversible driving motion with respect to either of said anterior and posterior ends of a selected reference one of either of said first and second elements, wherein said driving motion is in a direction in-line with said orientation, then said first and second elements, and if connected, said additional element are simultaneously provided with a controllably reversible and multipliable, non gravity dependent, linear-to-linear driven motion with respect to each other in-line with said orientation, said driven motion being in the same direction as said driving motion, or reverse thereto, in accordance with which reference one of said first and second elements was selected in respect of said driving motion.